

ABSTRACT OF THE DISCLOSURE

A enclosed-configuration electrically powered compressor has an electric motor with a segment-type stator coil that is directly cooled by a flow of refrigerant from an intake aperture in the casing, directed onto one or both of the coil end portions of the stator coil. Each coil segment is formed of a U-shaped conductor having rectangular cross-section, with each coil end portion having regular spaces formed between the conductors such as to present low resistance to the flow of refrigerant, with the refrigerant also flowing through the rotor/stator air gap of the motor. Effective cooling of the motor with resultant increased efficiency and higher shaft output power are thereby achieved.